



3. 特開 H09-110904

011317079

WPI Acc No: 1997-294983/199727

XRAM Acc No: C97-095342

Modified diene polymer rubber production - by polymerising conjugated diene, optionally with aromatic polyvinyl compound and then reacting with organo-polysiloxane having active groups

Patent Assignee: SUMITOMO CHEM CO LTD (SUMO)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicant No	Kind	Date	Week
JP 9110904	A	19970428	JP 95271467	A	19951019	199727 B
JP 3711598	B2	20051102	JP 95271467	A	19951019	200572

Priority Applications (No Type Date): JP 95271467 A 19951019

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 9110904	A	6	C08C-019/25	
JP 3711598	B2	10	C08C-019/25	Previous Publ. patent JP 9110904

Abstract (Basic): JP 9110904 A

Modified diene polymer rubber is prepared by first polymerising a conjugated diene monomer alone or with aromatic vinyl monomer in a hydrocarbon solvent, using an alkali metal-based polymerisation initiator to obtain an active conjugated diene polymer rubber having an alkali metal end, and then reacting with an organosiloxane compound containing at least one functional group, such as epoxy, alkoxy, carbonyl, vinyl, Cl, Br and I. Organo-siloxane compound is of formula (I) $X_7-[SiO(X_1)(X_2)]^m-[SiO(X_3)(X_4)]^n-SiX_5X_6X_8$ (I), where X₁-X₈ = alkoxy, vinyl, hydrocarbon group containing at least one of Cl, Br, I, epoxy group containing hydrocarbon group, H, alkyl or phenyl; m, n = 0-100, but not simultaneously zero.

USE - Used in car tyre.

ADVANTAGE - Product gives a car tyre with low rolling resistance and high wet skid resistance, energy saving and braking ability on wet road surface.

Dwg.0/1

Title Terms: MODIFIED; DIENE; POLYMER; RUBBER; PRODUCE; POLYMERISE;
CONJUGATE; DIENE; OPTION; AROMATIC; POLYVINYL; COMPOUND; REACT;
ORGANO;
POLYSILOXANE; ACTIVE; GROUP

Derwent Class: A12; A95

International Patent Class (Main): C08C-019/25

International Patent Class (Additional): C08C-019/42; C08G-077/18;
C08G-077/20; C08G-077/385; C08G-077/442

File Segment: CPI